IP Pools

Proxmox KVM module **WHMCS**

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IP Pools allow you to manage blocks of IPv4 and IPv6 addresses that are automatically assigned to virtual machines during provisioning.

> **Changed in v3.0.** IP Pools are now a first-class feature of the dedicated `puq_proxmox_kvm` addon. In v1.3–v2.x the same pool management lived in the separate **PUQ Customization** addon, which is no longer required — on first activation the new addon **automatically imports** all pools from the legacy `puq_customization_ip_pools` tables, including their allocations and per-server assignments. If you are migrating from an older version you do not need to recreate the pools by hand.

> **Legacy alternative (still supported).** If you prefer not to use pools at all, you can still define the IP addresses directly on the WHMCS server entry using the pipe-delimited **Assigned IP Addresses** format — see Create new server for Proxmox in WHMCS. The server module will pick an IP from whichever source has free entries (pools first, then the legacy list).

IP Pools List

Navigate to **Addons > PUQ Proxmox KVM > IP Pools** to view all configured pools.



ip-pools-with-rdns-zone-hint.png

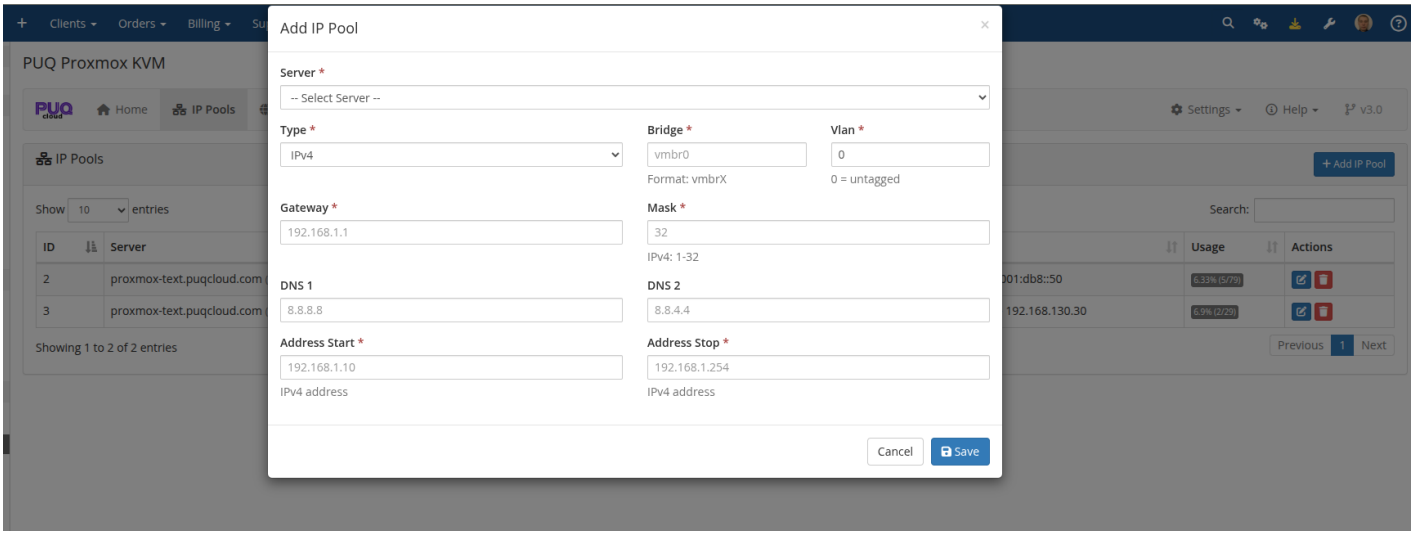
> **New in v3.2.** The Addresses column now shows the ready-made **rDNS zone name** that corresponds to each pool's prefix — copy it directly into the DNS Zones form when you want reverse DNS for that pool's IPs. No need to compute nibble reversals by hand. Both IPv4 (`/8`, `/16`, `/24`) and IPv6 (any nibble-aligned prefix) are supported.

The table displays:

Column	Description
ID	Pool identifier
Server	Associated Proxmox server
Type	IPv4 or IPv6
Bridge	Network bridge (e.g., `vmbr0`)
Vlan	VLAN tag (0 = no VLAN)
Gateway	Default gateway address
Mask	Subnet mask
Addresses	Total IPs in pool
Usage	Visual bar showing allocated vs available
Actions	Edit / Delete buttons

Adding an IP Pool

Click **+ Add IP Pool** to open the creation dialog.



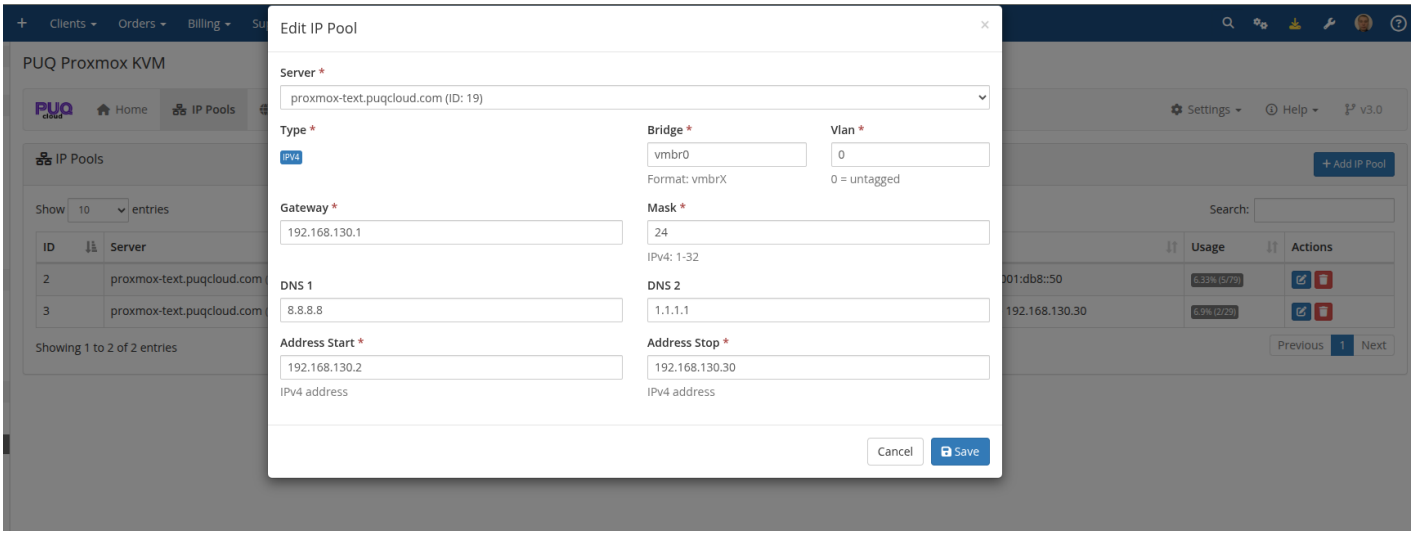
addon-ip-pool-add-modal.png

Fill in the following fields:

Field	Description	Example
Server	Select the Proxmox server	`pve-waw1`
Type	IPv4 or IPv6	`IPv4`
Bridge	Network bridge name	`vmbr0`
Vlan	VLAN tag (0 for untagged)	`0`
Gateway	Default gateway address	`192.168.130.1`
Mask	Subnet mask (1-32 for IPv4, 1-128 for IPv6)	`24`
DNS 1	Primary DNS server	`8.8.8.8`
DNS 2	Secondary DNS server	`1.1.1.1`
Address Start	First IP in the range	`192.168.130.2`
Address Stop	Last IP in the range	`192.168.130.254`

Editing an IP Pool

Click the **Edit** button next to any pool to modify its settings.



addon-ip-pool-edit-modal.png

> **Note:** Modifying a pool does not affect already-assigned IP addresses. Changes only apply to new allocations.

IP Allocation Process

IPs are automatically allocated from pools during VM provisioning when:

1. The server has no assigned IPs configured in WHMCS server settings
2. The addon module is installed and activated
3. The product's network configuration has **Auto bridge/VLAN** enabled

The system selects IPs from pools matching the server associated with the product. IPv4 and IPv6 addresses are allocated from separate pools.

Validation Rules

- Bridge must be a valid Proxmox bridge name
- Gateway must match the pool type (IPv4 for IPv4 pools, IPv6 for IPv6 pools)
- Server must be a valid Proxmox server configured in WHMCS
- Address range must be valid for the given type

Revision #12
Created 10 April 2026 13:02:09 by Ruslan
Updated 8 October 2026 19:20:57 by Ruslan